

HAND-HELD SANDER



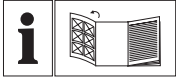
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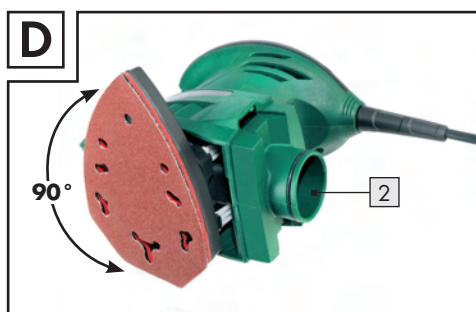
HAND-HELD SANDER

Operation and Safety Notes



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Before reading, unfold the page containing the illustrations and familiarise yourself with all functions of the device.



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The following pictograms are used in these operating instructions / on the device:			
	Read instruction manual!		Caution - electric shock! Danger to life!
W	Watts (Effective power)		Protect electrical power tools from moisture!
V~	Volt (AC)		Risk of loss of life by electric shock from damaged mains lead or mains plug!
	Safety class II		Wear hearing protection, dust protection mask, protective glasses and protective gloves.
	Observe caution and safety notes!		Danger of fire from flying sparks!
	Risk of explosion!		Dust hazard!
	Keep children away from electrical power tools!		Dispose packaging and appliance in an environmentally-friendly way!

Hand-Held Sander

● Introduction

 Please make sure you familiarise yourself fully with the way the device works before you use it for the first time and that you understand how to handle electrical power tools correctly. To help you do this please read the accompanying operating instructions. Keep these instructions in a safe place. If you pass the device on to anyone else, please ensure that you also pass on all the documentation.

● Proper use

The device is intended for dry sanding and polishing of wood, plastic, metal, filler and painted surfaces. The device is particularly suitable for corners, profiles or difficult to access places. Any other use or modification to the device shall be considered as improper use and could give rise to considerable

dangers. We will not accept liability for loss or damage arising from improper use.
Not suitable for commercial use.

● Features

- 1 Mains lead
- 2 Adapter port
- 3 Reducer piece for external vacuum extraction
- 4 Dust box for internal vacuum extraction
- 5 Release button - dust collection box
- 6 Ventilation slots
- 7 Patented backing plate (360° rotatable)
- 8 ON/OFF switch

● Included items

- 1 Hand-Held Sander
- 1 Sanding sheet
- 1 Reducer piece for external vacuum extraction
- 1 Operating instructions

● Technical information

Nom. power input:	160 W
Nominal voltage:	230 V ~ 50 Hz
Nominal speed:	n_0 13.000 min ⁻¹
Nom. oscillation speed:	n_0 26.000 min ⁻¹
Backing plate:	360° rotatable
Protection class:	II/□

Noise and vibration data:

Values determined in accordance with EN 60745
The sound pressure level (A-weighted) of the device is typically 76 dB(A). Uncertainty K = 3 dB.
The sound level while working can exceed 90 dB (A).



Wear ear protection!

Evaluated acceleration, typical:

Hand/arm vibration a_{rh} = 2,309 m/s²
Uncertainty K = 1,5 m/s²

⚠ WARNING! The vibration level given in these instructions has been measured in accordance with a standardised measurement procedure specified in EN 60745 and can be used to compare devices. Different uses of the device give rise to different vibration levels and in many cases they may exceed the values given in these instructions. It is easy to underestimate the vibration load if the electrical power tool is used regularly in particular circumstances.

Note: If you wish to make an accurate assessment of the vibration loads experienced during a particular period of working, you should also take into account the intervening periods of time when the device is switched off or is running but is not actually in use. This can result in a much lower vibration load over the whole of the period of working.





General safety advice for electrical power tools

⚠ WARNING! Read all the safety advice and instructions! Failure to observe the safety advice and instructions may result in electric shock, fire and/or serious injury.

KEEP ALL THE SAFETY ADVICE AND INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE! THE TERM "ELECTRICAL TOOL" USED IN THE SAFETY ADVICE REFERS TO ELECTRICAL TOOLS POWERED BY MAINS ELECTRICITY (BY MEANS OF A MAINS LEAD) AND ELECTRICAL TOOLS POWERED BY RECHARGEABLE BATTERIES (WITHOUT A MAINS LEAD).

1. Workplace safety

- Keep your working area clean and well lit.** Untidy or poorly lit working areas can lead to accidents.
-  **Do not work with the device in potentially explosive environments in which there are inflammable liquids, gases or dusts.**
Electrical power tools create sparks, which can ignite dusts or fumes.
-  **Keep children and other people away while you are operating the electrical tool.**
Distractions can cause you to lose control of the device.

2. Electrical safety





To avoid danger to life from electric shock:

- The mains plug on the device must match the mains socket. The plug must not be modified in any way. Do not use an adapter plug with devices fitted with a protective earth.** Unmodified plugs and matching sockets reduce the risk of electric shock.

- b) **Avoid touching earthed surfaces such as pipes, radiators, ovens and refrigerators with any part of your body.**

There is an increased risk of electric shock if your body is earthed.

- c)  **Keep the device away from rain or moisture.** Water entering an electrical device increases the risk of electric shock.


- d)  **Do not use the mains lead for any purpose for which it was not intended, e.g. to carry the device, to hang up the device or to pull the mains plug out of the mains socket. Keep the mains lead away from heat, oil, sharp edges or moving parts of the device.** Damaged or tangled mains leads increase the risk of electric shock.

- e) **When working outdoors with an electrical power tool always use extension cables that are also approved for use outdoors.** The use of an extension cable suitable for outdoor use reduces the risk of electric shock.

- f) **Use a residual current device (RCD) for protection if operating the electrical power tool in a moist environment is unavoidable.** The use of an RCD reduces the risk of electric shock.

3. Personal safety

- a) **Remain alert at all times, watch what you are doing and always proceed with caution. Do not use the device if you are tired or under the influence of drugs, alcohol or medication.** One moment of carelessness when using the device can lead to serious injury.

- b)  **Wear personal protective equipment and always wear safety glasses.** The wearing of personal protective equipment such as dust masks, non-slip safety shoes, safety helmets or ear protectors, appropriate to the type of electrical power tool used and work undertaken, reduces the risk of injury.

- c) **Avoid unintentional operation of the device. Check that the electrical power tool is switched off before you connect it to the mains, pick it up or carry it.**

Accidents can happen if you carry the device with your finger on the ON/OFF switch or with the device switched on.

- d) **Remove any setting tools or spanners before you switch the device on.** A tool or spanner left attached to a rotating part of a device can lead to injury.

- e) **Avoid placing your body in an unnatural position. Keep proper footing and balance at all times.** By doing this you will be in a better position to control the device in unforeseen circumstances.

- f) **Wear suitable clothing. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves clear of moving parts.** Loose clothing, jewellery or long hair can become trapped in moving parts.

- g) **If vacuum dust extraction and collection devices are fitted do not forget to check that they are properly connected and correctly used.** The use of these devices reduces the hazard presented by dust.

4. Careful handling and use of electrical power tools

- a) **Do not overload the device. Always use an electrical power tool that is intended for the task you are undertaking.** By using the right electrical power tool for the job you will work more safely and achieve a better result.


- b) **Do not use an electrical power tool if its switch is defective.** An electrical power tool that can no longer be switched on and off is dangerous and must be repaired.

- c) **Pull the mains plug out of the socket before you make any adjustments to the device, change accessories or when the device is put away.** This precaution is intended to prevent you from unintentionally starting the device.

- d) **When not in use always ensure that electrical power tools are kept out of reach of children. Do not let anyone use the device if he or she is not familiar with it or has not read the instructions and advice.** Electrical power tools are dangerous when they are used by inexperienced people.
- e) **Look after the device carefully. Check that moving parts are working properly and move freely. Check for any parts that are broken or damaged enough to detrimentally affect the functioning of the device. Have damaged parts repaired before you use the device.** Many accidents have their origins in poorly maintained electrical power tools.
- f) **Use the electrical power tool, accessories, inserted tools etc. in accordance with these instructions and advice, and the stipulations drawn up for this particular type of device. In doing this, take into account the working conditions and the task in hand.** The use of electrical power tools for purposes other than those intended can lead to dangerous situations.



Safety advice relating specifically to this device

- Securely support the workpiece. Use clamps or a vice to grip the workpiece firmly. This is much safer than holding it in your hand.
- Never support yourself by placing your hands near or in front of the device or the workpiece surface. A slip can result in injury.
- If a dangerous situation arises, pull the mains plug immediately out of the mains socket.
- Always work with the mains lead leading away from the rear of the device.
-  **DANGER OF FIRE FROM FLYING SPARKS!** Abrading metal creates flying sparks. For this reason, always make sure that nobody is placed in any danger and that there are no inflammable materials near the working area.

- **⚠ WARNING! NOXIOUS FUMES!**

Any harmful / noxious dusts generated from sanding represent a risk to the health of the person operating the device and to anyone near the work area.



- **⚠ WARNING! DUST HAZ-**

ARD! When sanding wood and in particular when working on materials that give rise to dusts that are hazardous to health, the sander must be connected to a suitable external dust extraction device.



Wear protective glasses and a dust mask!

- Ensure that there is adequate ventilation when working on plastic, paint, varnish etc.
- Do not soak the materials or the surface you are about to work on with liquids containing solvents.
- Do not abrade moistened materials or damp surfaces.
- Avoid sanding paints containing lead or other substances hazardous to health.
- Do not work on materials containing asbestos. Asbestos is a known carcinogen.
- Avoid contact with the moving sanding sheet.
- Operate the device only with an attached sanding sheet.
- Never use the device for a purpose for which it was not intended nor with non-original parts / accessories. The use of tools or accessories other than those recommended in the operating instructions could lead to you suffering an injury.
- Switch the device off and allow it to come to a standstill before you put it down.
- Always keep the device clean, dry and free of oil or grease.

● Preparing for use

Take note of the mains voltage. The mains voltage at the mains socket must match that shown on the rating plate on the device. Devices marked with 230 V can also be operated at 220 V.

⚠ CAUTION! Make sure that the device is switched off before you connect it to the mains supply.

Note! Always switch on the delta sander before bringing it into contact with the workpiece material.

Switching on the device:

- Move the ON / OFF switch **8** downwards into the "ON" position.

Switching off the device:

- Move the ON / OFF switch **8** upwards into the "OFF" position.

● Vacuum dust extraction

⚠ WARNING! DANGER OF FIRE! There is the danger of fire when working with electrical devices that have a dust box or can be connected to a vacuum cleaner. Under certain conditions the wood dust in the dust extraction bag (or in the vacuum's dust bag) may ignite, e.g. as a result of flying sparks generated when abrading metals or metal objects left in wood. This can happen particularly if the wood dust is mixed with paint residue or other chemicals and the abraded particles are hot from prolonged abrasion. Therefore you must empty the device's dust collection box and the vacuum cleaner's dust bag before taking a break or stopping work and always avoid overheating of the abraded particles and the device.



Wear a dust mask!

⚠ WARNING! Always pull the mains plug is out of the socket before doing any work on the device.

● Dust box for internal vacuum extraction

Connection:

- Push the dust box for internal vacuum extraction **4** on to the hand-held sander until it engages.

Removal:

- Press the release button **5** of the dust extraction box for internal vacuum extraction **4** and withdraw it towards the rear of the device.

● Reducer piece

Connection:

- Push the reducer piece **3** into the adapter port **2**.
- Push the hose of a suitable dust extraction device approved for that purpose (e.g. a workshop vacuum cleaner) on to the reducer piece **3**.

Removal:

- Pull the dust extraction device hose off the reducer piece **3**.
- Pull off the reducer piece **3**.

● Attaching / detaching sanding sheets

⚠ WARNING! Always pull the mains plug is out of the socket before doing any work on the device.

Attaching:

- Sanding sheets are attached to the backing plate **7** by means of the hook and pile fastening.

Detaching:

- Simply pull the sanding sheet off the backing plate **7** (see Fig. C).

● Rotating the backing plate

⚠ WARNING! Always pull the mains plug is out of the socket before doing any work on the device.


- Rotate the backing plate **7** into the desired position (see Fig. D).

Sanding and surfaces:


The sanding output and the quality of the surface finish are determined by the grade of grit on the sanding sheet.

- Always use sanding sheets with grades that are suitable for the particular surface you are sanding.


● Advice on use

- Switch the device on before placing it against the workpiece.
- Apply light sanding pressure only.
- Advance the device at an even rate.
- Change sanding sheets at the appropriate time.
- Do not work on different types of material using the same sanding sheet (e.g. wood and then metal). To achieve the best sanding results you should use unworn, undamaged sanding sheets.
- Clean the sanding sheet from time to time with a vacuum cleaner.
- Sand difficult to reach places with the front or side corners of the backing plate .
- Work in parallel and overlapping widths.
- After sanding the workpiece, lift the device from the workpiece before switching it off.

● Maintenance and cleaning

 **WARNING!** Always pull the mains plug out of the socket before doing any work on the device.

The delta sander is maintenance-free.

- Clean the device frequently. This should be done immediately after you have finished using it.
- For cleaning the housing use a dry cloth only.
- Remove any adhering sanding dust with a narrow paint brush.
- Never use any kind of sharp object or petrol, solvents or cleaning agents that might attack plastic. Do not allow any liquids to enter the inside of the device.
- Always keep the ventilation slots  clear.

● Disposal



The packaging is wholly composed of environmentally-friendly materials that can be disposed of at a local recycling centre.





Do not dispose of electrical power tools with the household rubbish!

In accordance with European Directive 2002/96/EC (covering waste electrical and electronic equipment) and its transposition into national legislation, worn out electrical power tools must be collected separately and taken for environmentally compatible recycling.

Contact your local refuse disposal authority for more details of how to dispose of your worn out electrical devices.

● Information

● Service centre

-  **WARNING!** Have your device repaired only by qualified specialist personnel using original manufacturer parts only. This will ensure that your device remains safe to use.
-  **WARNING!** If the plug or mains lead needs to be replaced, always have the replacement carried out by the manufacturer or its service centre. This will ensure that your device remains safe to use.

● Warranty

This appliance is guaranteed for 3 years from the date of purchase. It has been carefully produced and meticulously checked before delivery. Please keep your receipt as proof of purchase. Contact your service centre by telephone in case of questions pertaining to the warranty. Your goods can be transmitted free of cost only in this manner. This warranty applies only to the initial purchaser and is non-transferable.

The warranty covers only material or manufacturing faults, not normal wear or damage to fragile parts such as switches or rechargeable batteries.

The appliance is intended solely for private, not commercial, use.

If this product has been subjected to improper or inappropriate handling, abuse, or interventions not carried out by one of our authorised sales and service outlets, the warranty will be considered void. This warranty does not affect your statutory rights.

GB

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Mobile operators may vary.
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● Declaration of Conformity / Manufacturer CE

We, Kompernaß GmbH, Burgstr. 21,
D-44867 Bochum, Germany, declare that this
product complies with the following EC directives:

Machinery Directive **(98 / 37 / EC)**

EC Low Voltage Directive **(2006 / 95 / EC)**

Electromagnetic Compatibility **(2004 / 108 / EC)**

Applicable harmonized standards

EN60745-1:2003+A1, EN60745-2-4:2003,
EN55014-1:2000+A1+A2, EN55014-2:1997+A1,
EN61000-3-2:2000+A2, EN61000-3-3:1995+A1,
EN50366:2003

and confirm this with the CE symbol.

Type / Machine designation:
Hand-Held Sander

Bochum, 31.03.2009



Hans Kompernaß
- Managing Director -

We reserve the right to make technical modifications
in the course of product development.

IAN: 26047

KOMPERNASS GMBH

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